CIVIL PRO
[illegible] COMPANY ENABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

[illegible]	:	CP-RW-2017-12-19-02 **Date: 22-12-17**
[illegible]	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
[illegible]	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Roads and Drains at Allalasandra in Ward No.04
Agency	:	Sri.K.Achuta Murthy, No.07, 1st 'C' Main Road, Geleyara balaga, Mahalakshmipura, Banglore-560086.
Customer Reference	:	EE(Project)/YnkZone/WO/83/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-12-17
Sample ID No	:	2017-12-19-02/01
Type of Mix	:	GSB (Granular Sub Base)
Date of test	:	20-12-17
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	996	996	10.0	90.0	80-100
26.5	1686	2682	26.8	73.2	55-90
9.5	1292	3974	39.7	60.3	35-65
4.75	1490	5464	54.6	45.4	25-55
2.36	1764	7228	72.3	27.7	20-40
0.425	1666	8894	88.9	11.1	10-25
0.075	896	9790	97.9	2.1	0-5

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table 400.2 MORTH Specification
1	Liquid Limit, %	23.33%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

Note:-
The results pertain to the samples received and tested.
All information Furnished by Customer/ Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

[illegible]	:	CP-2017-12-26-06 **Date: 29-12-17**
[illegible]	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
[illegible]	:	Project Sub Division, BBMP, Bangalore.
[illegible]	:	Construction of CC Roads and Drains at Allalasandra in Ward No.04
[illegible]	:	Sri.K.Achuta Murthy, No.07, 1st 'C' Main Road, Geleyara balaga, Mahalakshmipura, Banglore-560086.
Customer's Reference	:	EE(Project)/YnkZone/WO/83/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-17
Sample ID No	:	2017-12-26-06/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	27-12-17

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Yelahanka Zone
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Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.45	–
2	Finess by Air permeablity method (m^2/kg, Min)	285.4	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	170 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

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Samples will be disposed after 90 days from the date of issue of test certificate

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2017-12-26-06 **Date: 24-01-18**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Roads and Drains at Allalasandra in Ward No.04
Agency	:	Sri.K.Achuta Murthy, No.07, 1st 'C' Main Road, Geleyara balaga, Mahalakshmipura, Banglore-560086.
Customer's Reference	:	EE(Project)/YnkZone/WO/83/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-17
Sample ID No	:	2017-12-26-06/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	27-12-17

Compressive Strength			
SLNo	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	27.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	57.5N/mm^2	Not less than 53 N/mm^2

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2017-12-26-06 **Date: 30-12-17**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Roads and Drains at Allalasandra in Ward No.04
Agency	:	Sri.K.Achuta Murthy, No.07, 1st 'C' Main Road, Geleyara balaga, Mahalakshmipura, Banglore-560086.
Customer's Reference	:	EE(Project)/YnkZone/WO/83/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	26-12-17
Sample ID No	:	2017-12-26-06/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	27-12-17

Asst. Executive Engineer Project Division Yelahanka Zone Bangalore

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	232	232	1.5	98.5	90-100
3	20 mm	5334	5566	37.1	62.9	30-70
4	10 mm	4665	10231	68.2	31.8	10-35
5	4.75 mm	4355	14586	97.2	2.8	0-5
6	Pan	414	15000	100.0	0	—

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-12-26-06 **Date: 30-12-17**

Sample ID No : 2017-12-26-06/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**12.4**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.7**	
3	Specific Gravity	**2.69**	–
4	Bulk Density(Loose) (Kg/l)	**1.49**	–
5	Bulk Density(Compacted) (Kg/l)	**1.54**	–
6	Water Absorption(%)	**0.24**	–

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Project Division
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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2017-12-26-06 **Date: 30-12-17**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Roads and Drains at Allalasandra in Ward No.04
Agency	:	Sri.K.Achuta Murthy, No.07, 1st 'C' Main Road, Geleyara balaga, Mahalakshmipura, Banglore-560086.
Customer Reference	:	EE(Project)/YnkZone/WO/83/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-17
Sample ID No	:	2017-12-26-06/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	27-12-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	248	248	5.0	95.0	90-100
3	10 mm	2654	2902	58.0	42.0	25-55
4	4.75 mm	1780	4682	93.6	6.4	0-10
5	Pan	318	5000	100	0	-

As early

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